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OUT60982

P 210214Z JAN 67

1967 JAN 21 02 46Z

FM NPIC WASHDC

TO RUCSAAA/SAC OFFUTT AFB OMAHA NEB

RUCVAAA/4080 STRAT WG OL 19 BARKSDALE AFB LA

RUCVAAA/2D RTS BARKSDALE AFB LA

RUEPJS/DIA WASHDC

RUCIJRA/NAVRECONTECHSUPPCEN SUITLAND MD

RUEPIA/CIA WASHDC

RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF

RUCVAAA/2 AF BARKSDALE AFB LA

BT

S E C R E T CITE NPIC 9646.

15TH AF (FOR DI), SAC (FOR DIM/GLASS LAMP/DOCR, DM 4)

2D AF (FOR DI).

1. CAMERA B-23 WAS USED IN MISSION G-942 FLOWN ON 18 JANUARY 1967. PROCESSING WAS ACCOMPLISHED BY NAV RECON TECH SUPPCEN.

2. ORIGINAL NEGATIVE:

A. THE DENSITY IS HEAVIER THAN NORMAL BECAUSE OF THE CAMERA MALFUNCTION EXPLAINED IN ITEM B. RESOLUTION IS GOOD IN AREAS NOT SEVERLY DEGRADED BY THIS ANOMALY.

B. 9R SIDE: PLUS DENSITY OVALS ASSOCIATED WITH ROLLER CHATTER ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION. MINUS DENSITY DOTS SPACED 2.3 INCHES APART AND 2.0 INCHES FROM

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THE INBOARD EDGE ARE PRESENT ON FRAME 1 THRU 4. EMULSION DIGS ARE PRESENT ON FRAMES 2, 21, 397 AND 1769. HEAT SPLICES ARE PRESENT BETWEEN FRAME 834/835, 964/965 AND IN FRAME 999; ALSO MANUFACTURERS SPLICES ARE PRESENT IN FRAMES 4 AND 2127.

C. 9L SIDE: HEAT SPLICES ARE PRESENT BETWEEN FRAMES 599/600 AND 1043/1044. EDGE CRIMPING IS PRESENT ON ALL FRAMES BETWEEN 0589 THRU 0592. IMAGE SMEAR, ASSOCIATED WITH VEHICLE MANUVERING, IS PRESENT ON THE FOLLOWING FRAMES: 1242, 1267, 1541 AND 1553. A MANUFACTURERS SPLICE IS PRESENT IN FRAME 1337.

D. BOTH SIDES: FOGGING CAUSED BY A LIGHT LEAK OF UNDETERMINED ORIGIN DEGRADES APPROXIMATELY 50 PERCENT OF EACH FRAME THROUGHOUT THE MISSION. THE RESULTS OF THE LIGHT LEAK ARE LOCATED ALONG THE DATA BLOCK EDGE WHERE THE NEGATIVES CONTAIN AREAS OF MAXIMUM DENSITY. THE DATA BLOCK HOUSING APPEARS TO PREVENT FOGGING IN THE IMMEDIATE AREA OF THE DATA BLOCK; HOWEVER, THE CAMERA POSITION INDICATOR IS NOT READABLE. THE FOGGING IS SLIGHTLY MORE PRONOUNCED ON THE 9R SIDE THAN ON THE 9L SIDE. AN ADDITIONAL ANOMALY, PROBABLY ASSOCIATED WITH THE LIGHT LEAK, IS A SERIES OF CONCENTRIC CIRCLES OF VARYING DENSITIES ABOUT THE PRINCIPAL POINT OF THE FORMAT. THESE CIRCLES APPEAR TO BE REFLECTIONS FROM THE REAR ELEMENT OF THE LENS OR A SHADOWGRAPH OF THE CONTOURED PLATEN. THESE CIRCLES DEGRADE THE IMAGERY AN ADDITIONAL FIVE PERCENT. THERE ARE ALSO LONGITUDINAL LINES OF VARYING DENSITY, SPACED APPROXIMATELY 0.5 INCH THROUGHOUT THE ENTIRE MISSION. THESE LINES ARE MUCH MORE

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PROMINENCE ON THE 9L SIDE AND HAVE THE APPEARANCE OF BAS-RELIEF. IN ADDITION TO THE MAJOR LIGHT LEAK THERE ARE A SERIES OF PLUS DENSITY LINES EXTENDING ACROSS THE FILM FROM EDGE TO EDGE IN ALL FRAMES. THESE LINES ARE RECORDED 12.0 INCHES FROM THE TAKE-UP ON THE 9L SIDE AND 2.75 INCHES FROM THE TAKE-UP ON THE 9R SIDE. THERE ARE A TOTAL OF 2140 TITLED FRAMES ON THIS MISSION.

E. ASIDE FROM THE LIGHT LEAKS DESCRIBED ABOVE THERE WERE NO CAMERA MALFUNCTIONS OR PROCESSING ANOMALIES ON THIS MISSION.

3. POSITIVE:

A. THE PI SUITABILITY IS GOOD EXCEPT WHEN DEGRADED BY THE FOGGING, CONCENTRIC CIRCLES AND LONGITUDINAL PLUS DENSITY LINES. IT IS ESTIMATED THAT THE LIGHT CAUSED A 50 PERCENT LOSS IN INTELLIGENCE VALUE ON THIS MISSION, PARTICULARLY WHERE STEREOSCOPIC COVERAGE WAS REQUIRED FOR THE READOUT.

B. PRINTING AND PROCESSING WERE GOOD.

C. CLOUDS OBSCURRED OR DEGRADED APPROXIMATELY 15 PERCENT OF THE MISSION PHOTOGRAPHY.

SECRET

EOM

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